Notice of Allowability	Application No.	Applicant(s)	Applicant(s)	
	10/623,146	ADAMO ET AL.	ADAMO ET AL.	
	Examiner	Art Unit		
	Tuan V. Thai	2186		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is s	this application. If not including this application. If not including the industrial ind	led course. THIS	
1. \boxtimes This communication is responsive to <u>amendment filed 11/</u>	<u>10/2006</u> .			
2. The allowed claim(s) is/are 1-20 renumbered as 1-1416-20	o and 15 respectively.			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" 	e been received. e been received in Applicatio cuments have been received	n No d in this national stage applica		
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	1ENT of this application.			
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or	declaration is deficient.	NOTICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the property of of the prop	son's Patent Drawing Review . s Amendment / Comment or .84(c)) should be written on th	in the Office action of	e back) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. DLOGICAL MATERIAL.	Note the	
Attachment(s)	- -			
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		5. ☐ Notice of Informal Patent Application6. ☐ Interview Summary (PTO-413),		
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./I	Mail Date Amendment/Comment		
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's \$	Statement of Reasons for Allo Lahran TUAN V. THAI PRIMARY EXAMI	, //	

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Art Unit: 2186

IN THE UNITED STATES PATENT AND

In re application of: Yamamoto et al. Group: 2186

Serial No.: 10/623,146 Examiner: Tuan Thai

For: PROCESS FOR MANAGING SYSTEM STACKS IN MICROCONTROLLERS,

CORRESPONDING DEVICE AND COMPUTER PROGRAM PRODUCT.

- This action is responsive to amendment filed November 10,
 Claims 1-20 are now allowed.
- 2. The rejection of claim 1 under 35 USC § 101 is withdrawn due to the amendment filed November 10, 2006.

REASONS FOR ALLOWANCE

3. The following is an Examiner's Statement of Reasons for Allowance:

The prior arts of record do not teach nor suggest, either alone or in combination, all the limitations of the amended claims of the current invention (claims 1, 6, 14 and 15) particularly a method and system having a stack management device associated with a microcontroller having a number of interrupts wherein the device having a first memory stack comprising a register for a Program Counter signal, a second memory stack for a Condition Code Register signal that includes a number of bits,

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the second memory stack being made up of a bank of memory elements equal in number to the bits of the Condition Code Register signal times the number of interrupts of the microcontroller, and at least one manager module configured to cause the first and second memory stacks to function in parallel by respective stack pointer signals (claim 6). Similarly for claims 1, 14 and 15. Claims 2-5, 7-13, 16-19 and 20 are also allowable since they are depended upon the indicated allowable claims 1, 6, 15 and 14 respectively.

Any comments considered necessary by Applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan V. Thai whose telephone number is (571)-272-4187. The examiner can normally be reached on from 6:30 A.M. to 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew M. Kim can be reached on (571)-272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application

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may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TVT/November 22, 2006

Trans V Than

PRIMARY EXAMINER

Group 2100